

# IANA Update

## ICANN Meetings, Marrakech 2006

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Kim Davies

Internet Assigned Numbers Authority



# Themes

- ▶ Introduction
- ▶ Performance Update
- ▶ 24x7 Call Centre Support
- ▶ Root Zone Automation
- ▶ Improving Procedures
- ▶ Other Issues
- ▶ Future work

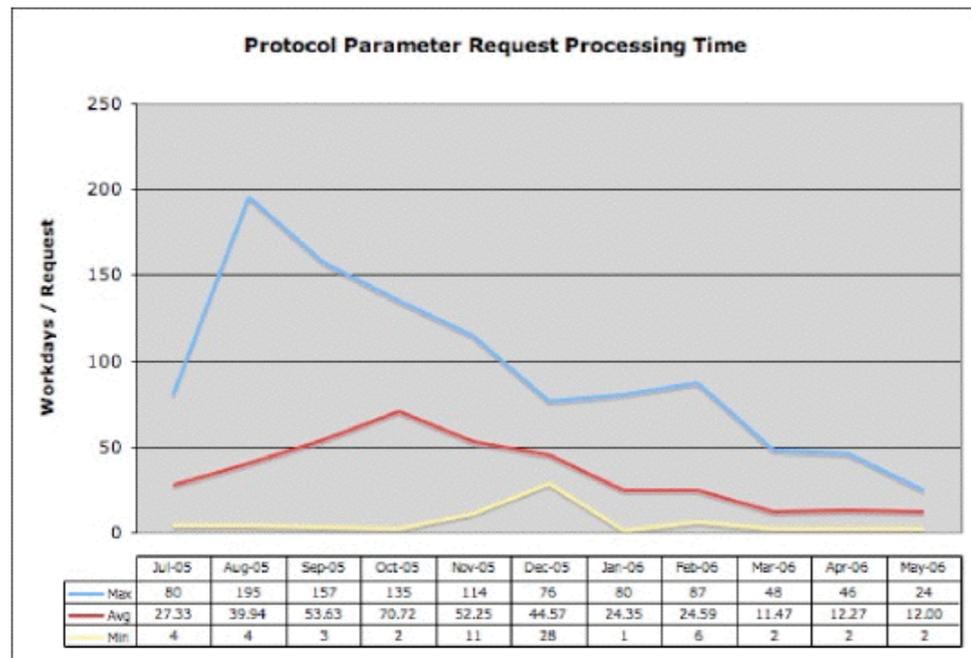
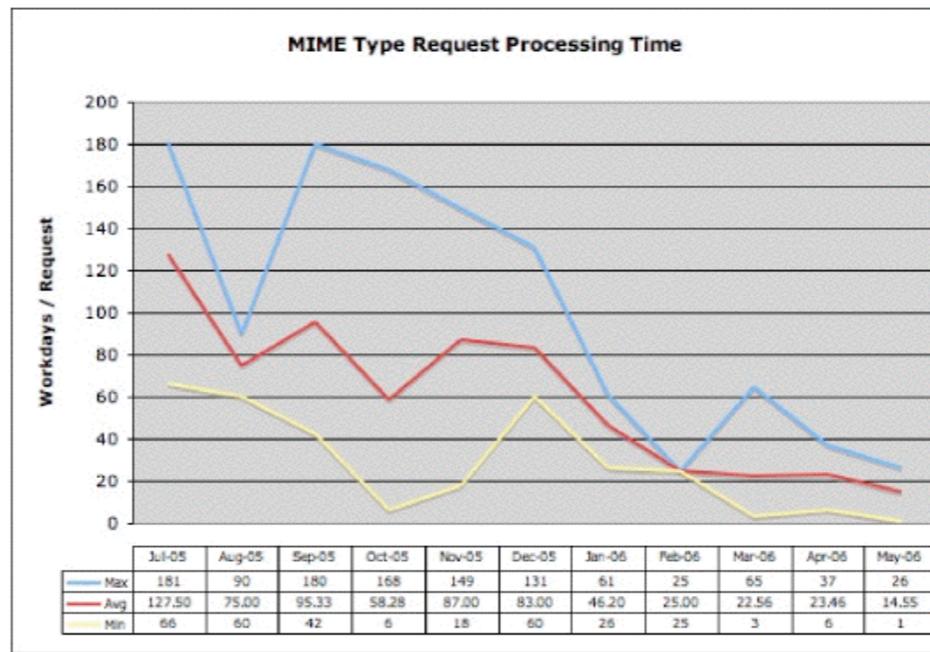
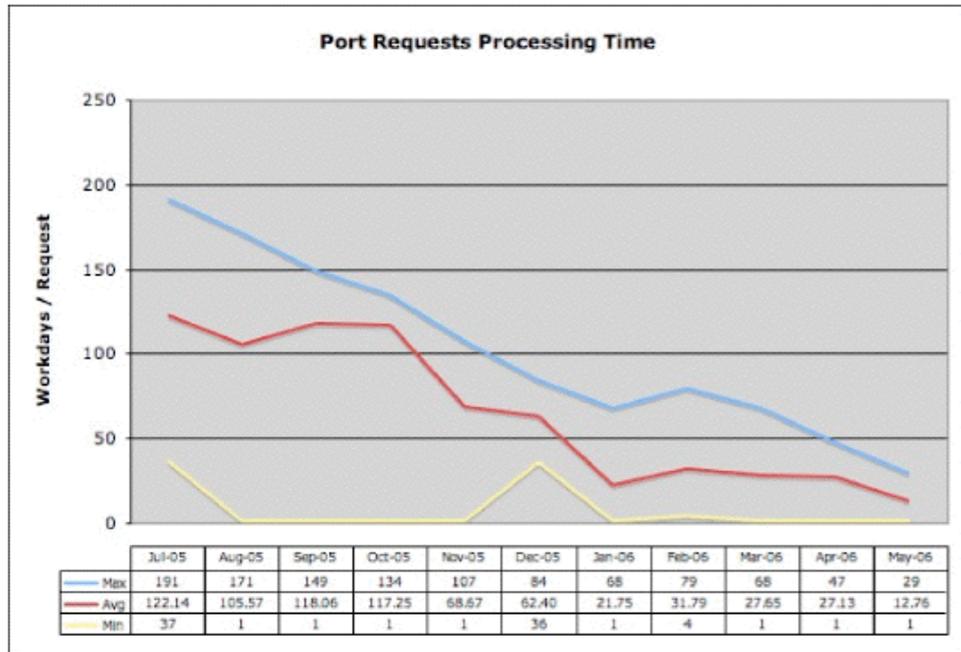
# Introduction

- ▶ Naela Sarras
  - ▶ Our Root Management Person

# Performance Update

- ▶ Performance improving for resource requests
- ▶ Routine root zone handling around best practice
- ▶ In this period, great deal of staff time eaten up by less routine work (e.g. redelegations)
- ▶ Continuing to work with IANA WG, and general community, on clarifying IANA issues

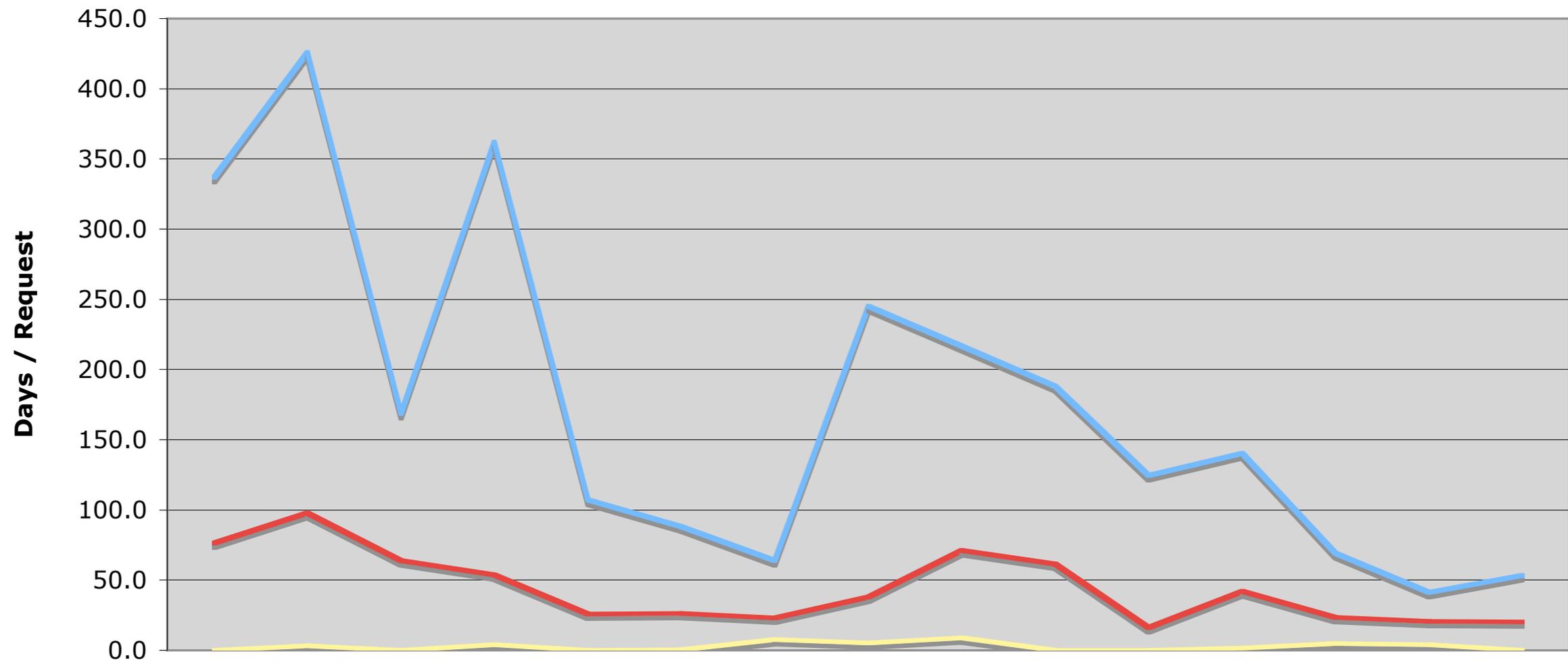
# Trend Lines



Overall IANA times trending down, despite increased request load.

<http://www.iana.org/reporting-and-stats/>

# Root Management



	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06
Max	336.7	425.8	168.6	361.7	107.3	88.1	63.9	244.9	216.8	188.0	124.5	140.3	69.1	41.4	53.5
Avg	76.6	97.7	63.8	53.6	25.9	26.2	23.2	37.8	71.1	61.3	16.4	41.9	23.4	20.5	20.2
Min	0.0	3.1	0.0	4.2	0.2	0.2	7.7	5.4	9.0	0.1	0.2	1.7	5.0	4.0	0.1

*Note: Overall processing time includes time waiting on 3rd parties (requestor, DOC, VRSN, etc.), and redelegation evaluations.*

# 24×7 Support

- ▶ Provide an emergency contact in the event of serious issue
- ▶ Roster of 5 IANA staff, further escalation throughout the company
- ▶ Designed for reporting issues where emergency root zone fix can assist
- ▶ Does *not* mean staff are in office all the time.

# 24x7 Support

**+1 310 306 6308**

- ▶ Available from 15 July, 2006
- ▶ For all TLD operators
- ▶ For expediting emergency root-zone changes
- ▶ Ensure your contacts are up to date! (go to [whois.iana.org](http://whois.iana.org))

# Root Zone Automation

- ▶ After the last meeting, we came to an agreement with NASK to release e-IANA as open source
- ▶ Work has commenced on modifying to suit e-IANA
  - ▶ Functional specification revised, tweaked
  - ▶ Delayed onset due to some new unforeseen requirements
- ▶ No prototype for the meeting this week. Sorry 😞

# Interface improvements

- ▶ Focus on intuitive interface to make process easier, self explanatory



# Overview

Users get a customised overview of which domains they manage, their outstanding requests, etc.

## Root Management Overview

Welcome **Kim Davies!**

[Logout >](#)

## Your Domains

Domain	Role(s)	Last Updated	Actions
.au (Australia)	Technical Contact	January 4, 2003	<a href="#">Review / Edit</a>
.int (gTLD)	Administrative Contact Technical Contact	March 8, 1992	<a href="#">Review / Edit</a>

## Your outstanding requests

Reference	Domain	Lodged	Current Status	Last Change	Actions
9774	.au	4 May 2006	Waiting for Confirmations	4 May 2006	<a href="#">View Details</a>
9775	.au	4 May 2006	Waiting for Technical Review	4 May 2006	<a href="#">View Details</a>

# Updating a record

Users can interactively manipulate a record, and a request will automatically be formed.



## Review a Domain

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**.au** (Australia)

## Supporting Organisation

This represents the delegated authority responsible for operations of the domain,

**.au Domain Administration**  
107 Faraday Street  
Melbourne VIC 3053  
Australia

[Edit Record >](#)

Last Updated 3 January, 2001

## Contacts

Contacts authorised to speak for the operator of the domain. An technical and administrative contact must confirm any changes to details associated with this domain.

**Administrative**  
**Chris Disspain**  
au Domain Administration  
107 Faraday Street  
Melbourne VIC 3053  
Australia

ceo@auda.org.au  
+61-3-9349-4711 (v)  
+61-9349-5711 (f)

[Edit Record >](#)

Last Updated 3 January, 2001

**Technical**  
*(This is you.)*  
**Kim Davies**  
GPO Box E248  
Perth WA 6000  
Australia

kim@cynosure.com.au  
+61-8-9243-4440 (v)  
+61-8-9243-4441 (f)

[Edit Record >](#)

Last Updated 3 January, 2001

## Nameservers

These are the authoritative nameservers to be listed in the DNS root for this domain.

adns1.berkeley.edu	128.32.136.3
adns2.berkeley.edu	128.32.136.14
aunic.aunic.net	203.29.5.1

[Edit List >](#)

# Updating a record 2

Multiple changes are bundled into the same request. User will be asked later if they wish to split a request to expedite processing.



## Review a Domain

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**.au** (Australia)

You have made changes to this domain. Once you have completed making changes (highlighted in orange below) you must submit them to turn them into a Change Request for IANA to process. Failure to do this will result in changes being lost.

[Cancel Change Request](#)

[Complete Change Request](#)

## Supporting Organisation

This represents the delegated authority responsible for operations of the domain,

**.au Domain Administration**  
107 Faraday Street  
Melbourne VIC 3053  
Australia

[Edit Record >](#)

Last Updated 3 January, 2001

## Contacts

Contacts authorised to speak for the operator of the domain. An technical and administrative contact must confirm any changes to details associated with this domain.

**Administrative**

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+32-2-234-7870 (f)

[Edit Record >](#)

## Nameservers

These are the authoritative nameservers to be listed in the DNS root for this domain.

ns1.au 203.1.5.1  
adns1.berkeley.edu 128.32.136.3  
adns2.berkeley.edu 128.32.136.14  
aunic.aunic.net 203.29.5.1

[Edit List >](#)



# Automating steps

We aim to automate as much as possible as current policy allows, for example, making technical tests automatic with live feedback.

Will be implemented after a public review of our technical checks.

## Technical Check Problems

### .au (Australia)

The following problems were detected on the nameservers supplied in this request. We recommend you rectify all errors before submitting this request, as this will delay processing.

Errors marked in red **MUST** be fixed, as no processing can occur with these types of problems existing.

Errors in orange **SHOULD** be fixed, however, if the domain operator has a good reason operationally for the problem to occur, the IANA staff will evaluate the request and may proceed. We only recommend you take this option if you have a strong operational reason to do so. Please speak with IANA's staff if you have any enquiries.

ns1.au	<b>Passed all tests</b> Accessible via IPv4, AA-bit set.
aunic.aunic.net	<b>Passed all tests</b> Accessible via IPv4, AA-bit set.
muwaya.ucs.unimelb.edu.au	<b>Passed all tests</b> Accessible via IPv4, AA-bit set.
ns.uu.net	<b>Passed all tests</b> Accessible via IPv4, AA-bit set.
sec1.apnic.net	<b>Passed all tests</b> Accessible via IPv4, AA-bit set.
sec3.apnic.net	<b>Passed all tests</b> Accessible via IPv4, Accessable bia IPv6, AA-bit set.
Data Coherency	<b>Serial numbers don't match</b> ns1.au = 2006050101, aunic.aunic.net = 2006050102, muwaya.ucs.unimelb.edu.au = 2006050101, ns.uu.net = 2006050101, sec1.apnic.net = 2006050101, sec3.apnic.net = 2006050101
Data Format	<b>Passed all tests</b> <512-byte packet size, SOA correct format.

< Make more changes

Proceed with request >

# Improving Procedures

- ▶ Aim to improve deficient processes:
  - ▶ Identify processes that are unclear, inefficient, or not necessarily aligned with community desires
- ▶ Instigate public review of these procedures
- ▶ Adapt IANA procedures to better reflect community views

# Issues to consider

- ▶ Root Zone Specific
  - ▶ Technical requirements for name servers
  - ▶ Sunset procedure for ccTLDs
  - ▶ How to handle changes to shared glue
- ▶ Slightly related
  - ▶ .INT eligibility

# Tech Requirements

- ▶ Want to ensure technical checks are suitable
  - ▶ Reduce subjectivity, and make requirements clear
  - ▶ Possibly introduce checks for elements not officially checked
  - ▶ Sync with VeriSign to ensure checks are uniform
- ▶ Document current tests by IANA and VeriSign
- ▶ Possible alterations
  - ▶ 512-byte limit
  - ▶ Improved network diversity test
  - ▶ Disabling recursion

# Sunset period for ccTLDs

- ▶ ISO 3166-1 alpha 2 is the authoritative source for eligible TLDs.
- ▶ Rules for “create”, “modify” - not “delete”, therefore mapping out of sync
- ▶ Some example data points
  - ▶ .zr → .cd
  - ▶ .su → .ru, .ua, .by, etc.
  - ▶ .tp → .tl
  - ▶ .cs → .cz & .sk
  - ▶ .yu → .cs (→ ...)
- ▶ Some issues
  - ▶ Risk of collision
  - ▶ Equitability
  - ▶ Which law/government/LIC applies?
  - ▶ Lack of formalisation of non-ISO operators results in stale data

# Glue Issues

- ▶ Current procedure for altering glue when shared between multiple (many) ccTLDs problematic
  - ▶ Examples given in Wellington
- ▶ A better way?

# Current status of papers

- ▶ Draft distributed in ccNSO IANA WG
- ▶ Will publish documents for comment ASAP

# Other operational issues

- ▶ Will be announcing a redelegation public comment period on .UA after this week
- ▶ At the request of the IAB, IANA will be signing .arpa by end of year.

# Towards the future

- ▶ Continued focus on better documentation, better reporting, better processes.
- ▶ Release new tools (e-IANA, web site, technical checks, PEN management, etc.) as soon as they are developed
- ▶ Continuing to improve and develop our services
- ▶ Happy to answer your enquiries and try to serve you better

# Thank you for your attention!

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